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December 10, 1993

93-RF-14615

Richard J. Schassburger
Acting Director
Environmental Restoration Division
DOE, RFO

SIX-PHASE SOIL HEATING TECHNOLOGY - NMH-615-93

Ref: J. K. Hartman ltr (11133) to N. M. Hutchins, Proposed Demonstration of Six-Phase Heating Technology, September 24, 1993

This letter addresses the Department of Energy, Rocky Flats Office (DOE, RFO) concern regarding potential sites for the demonstration of Six-Phase Soil Heating Technology. EG&G will notify DOE, RFO of all future meetings involving this project. The proposed DOE Headquarters EM-50 program, which would be executed through Pacific Northwest Laboratories-Batelle, would use the subsurface heating technology known as Six-Phase Soil Heating Technology. The demonstration of this technology will utilize the existing Soil Vapor Extraction (SVE) field trailer and off gas treatment system as well as Fiscal Year 94 funds.

EG&G is producing a technical memorandum for the Operable Unit No. 2 (OU 2) SVE Project at Test Site 1, which will address requirements for treatment of extracted soil gas containing VOCs with concentrations exceeding in excess of 500 ppm-v. Concentrations of soil gas in excess of 500 ppm-v are anticipated in the demonstration. This information will indicate the modifications required to make the existing SVE off-gas treatment system appropriate to use in conjunction with the Six-Phase Soil Heating Technology.

EG&G is continuing the process of selecting a location to demonstrate the technology, using the observational approach to select the most appropriate location for the test. DOE has indicated an interest in OU 1, at Individual Hazardous Substance Site (IHSS) 119.1. Before committing to IHSS 119.1 as the demonstration site, the nature and extent of volatile organic compound (VOC) contamination must be evaluated. Provisions have been made for performing a soil gas survey (SGS) on IHSS 119.1 using both 5 foot and 10 foot probes. The information gained from the SGS will aid in selecting the appropriate location for the test.

The existing SVE equipment is currently committed to OU 2 for Test Site 2. The scope of the current OU 2 SVE project requires that Test Site 2 be at an IHSS located within OU 2; however, the exact location of Test Site 2 has yet to be determined. If Test Site 2 is performed as originally scoped and scheduled, both the OU 1 and OU 2 Test Sites would have to be performed concurrently. Since there is only one SVE off-gas treatment system, scheduling both projects concurrently would not be possible.

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R. J. Schassburger
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EG&G is recommending that DOE, RFO consider changing the location of the current SVE Test Site 2 to the Six-Phase Soil Heating project location, potentially at OU 1. EG&G is looking forward to working with Batelle and is committed to performing subsurface heating, utilizing EM-50 funding, as the next phase of SVE testing. EG&G is requesting guidance from DOE as to whether the location for Test Site 2 can be changed to OU 1. If you have any questions, please contact R. E. Madel of Environmental Engineering & Technology at X6972.



N. M. Hutchins
Acting Associate General Manager
Environmental Restoration Management
EG&G Rocky Flats, Inc.

REM:cet

Orig. and 1 cc - R. J. Schassburger

cc:

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